

# ILYAS IBRAGIMOV

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## SUMMARY

Software engineer with 6+ years building platform infrastructure and trading systems at quantitative hedge funds. At Two Sigma, backend engineer on firm-wide cost and metrics systems in Python, dbt, BigQuery, and SQL, with multiple LLM-powered tools in production. Previously built Python portfolio analytics, optimized C++ trading systems, and integrated exchange connections.

## EXPERIENCE

<b>Senior Software Developer</b>	Nov. 2022 – Present
<b>Two Sigma (via Randstad Digital)</b>	New York, NY
<ul style="list-style-type: none"><li>Built and maintained the ELT pipeline for a firm-wide cost transparency platform over 3 years with Python, dbt, and BigQuery: 8+ disparate data sources, 15+ TB of usage data daily across hundreds of products, \$80MM+ in annual spend. Became sole backend engineer after the lead's departure.</li><li>Built a firm-wide metrics platform in Python, BigQuery, and SQL, ingesting hundreds of KPIs from multiple teams and sources for executive dashboards and team-level tracking.</li><li>Onboarded a new engineer to the team and together decomposed an inherited legacy monolith into 5 loosely coupled pipelines with dedicated CI/CD, automated testing, and programmatic data ingestion.</li><li>Drove early adoption of dbt (Data Build Tool) at the firm. Co-authored the internal best practices guide, built quickstart repos, and gave presentations that accelerated usage across multiple teams. Led the migration from Apptio to Python, dbt, and BigQuery, delivering \$1MM+ in annual savings and 65% faster processing.</li><li>Created an LLM-powered department reorganization detection system: a pipeline using Claude and Vertex AI that analyzes employee movement patterns, classifies organizational changes, and applies retroactive cost corrections. Eliminated weeks of manual investigation per reorganization.</li><li>Designed an automated incident response system with GitHub issue creation, Slack alerting, and AI-generated root-cause analysis via Claude Code. Hardened ELT pipelines with schema drift auto-recovery, exponential backoff retries, and safe handling of upstream outages.</li><li>Built a PowerPoint generation framework for Claude Code: fully editable, branded decks with employee photo lookups, auto-generated figures and tables, and Google Workspace uploads. Includes custom skills, prompts, assets, JavaScript rendering scripts, and Playwright layout tests.</li></ul>	
<b>Software Developer</b>	Jan. 2020 – Nov. 2022
<b>Blueshift Asset Management</b>	Red Bank, NJ
<ul style="list-style-type: none"><li>Built a real-time portfolio monitoring platform with terminal-based GUI, automated investor reporting, and historical performance tracking. Reduced analysis time by 65% and supported \$500M+ in managed assets.</li><li>Optimized the fund's proprietary C++ trading platform, reducing storage by tens of terabytes and production server load by 40%.</li><li>Integrated with multiple equity and crypto exchanges and built Python/Selenium data scrapers feeding alternative data research: social media signals, transcribed investor calls, and market sentiment analysis.</li><li>Designed a real-time compliance monitoring system automatically flagging banned tickers and improper trade amounts before execution, preventing regulatory violations.</li></ul>	
<b>Platform Development Intern</b>	July 2018 – Sep. 2018
<b>Fidessa</b>	Woking, UK
<ul style="list-style-type: none"><li>Built a secure file transmission platform in Java and JavaScript that eliminated recurring data breaches affecting 200+ clients, replacing vulnerable manual processes.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python, SQL (BigQuery), C++, Bash, JavaScript

**Data & Analytics:** dbt, BigQuery, PostgreSQL, Dimensional Modeling, ELT Pipeline Design

**Cloud & Infrastructure:** GCP (BigQuery, GCS), AWS, Docker, GitHub Actions, Linux/Unix

**AI/LLM:** Claude Code, Claude API, Claude Skills, MCP Servers, Agentic Workflows, Test-Driven LLM Development

**Tools & Platforms:** Git, GitHub, Datadog, Jira, Slack, Google Workspace, Excel, REST APIs

**Frameworks & Testing:** Flask, Django, Playwright, Selenium

## EDUCATION

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<b>University College London (UCL)</b>	London, UK
<i>Master of Engineering (Electronic &amp; Electrical), First Class Honors (4.0 GPA Equivalent)</i>	2019
<b>Baruch College MFE Program</b>	New York, NY
<i>C++ Programming for Financial Engineering Certificate, Distinction</i>	2020
<b>Brooklyn Technical High School</b>	Brooklyn, NY
<i>High School Diploma, Mathematics Major, Math Team, 4.0 GPA</i>	2015

## PROJECTS

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<b>Network Packet Routing with Deep Reinforcement Learning</b>	MEng Thesis, First Class Honors
<i>University College London (UCL)</i>	2019
• Developed deep reinforcement learning models for optimal packet routing in software-defined networks using Python, OpenAI Gym, and TensorFlow.	
<b>Deep Learning Applications in Cryptocurrency Trading</b>	BEng Thesis, First Class Honors
<i>University College London (UCL)</i>	2018
• Built and refined LSTM networks for cryptocurrency return prediction using Python/Keras with extensive feature engineering and data mining.	